1978 PLANS

PROJECT TITLE: Paper and Filler Modification

CHARGE CODE: 4009

PROGRAMS:

I. ELECTRICAL PERFORATING

A.	Develop electrically perforated tipping papers for Merit 85's and 100's	1st Quarter, 1978
B.	Develop a perforating process for tipping paper based on 15 pairs of electrodes per band of holes	1st Quarter, 1978
C.	Determine optimum tipping paper and ink compositions for improved perforating performance.	2nd Quarter, 1978
D.	Develop electrically perforated white tipping with acceptable appearance.	3rd Quarter, 1978
E.	Improve the perforator and perforating process in conjunction with MFG.	Continuous

II. LASER PERFORATING

A.	Develop a laser perforating process for perforating large holes in tipping paper:	
	(1) Using a 4-beam CO_2 laser;	2nd Quarter, 1978
	(2) Using a single beam laser.	3rd Quarter, 1978
B.	Develop a laser perforating process for perforating small holes in tipping paper.	3rd Quarter, 1978
C.	Explore techniques for diluting the assembled cigarettes via laser perforating	Continuous

III. WRAPPER COMPOSITION STUDIES

A.	Determine the effect of ash content of cigarette wrapper on coal strength, cigarette burn rate, and gas phase delivery	1st Quarter, 1978

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B.	Determine the effect of the size press coating on wrapper properties.	1st Quarter, 1978
C.	Determine the combined effects of ash content and burn chemical on the burning properties of the cigarette.	2nd Quarter, 1978

IV. CIGARETTE TECHNOLOGY

A.	Determine the effect of draft on gas phase delivery for various porosity cigarette wrappers.	1st Quarter, 1978
B.	Develop a quality control procedure for measuring the pressure drop of perforated tipping papers with the Philip Morris test clamp.	1st Quarter, 1978
C.	Determine the effect of temperature on paper permeability.	2nd Quarter, 1978
D.	Correlate the physical properties of adhesive systems with performance in plugmaking and cigarette assembling operations.	3rd Quarter, 1978

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E. [illegible] the effect of the [illegible] [illegible] on vegetation [illegible]

C. Determine the combined effects of [illegible] and [illegible] on the [illegible] vegetation of the [illegible].

IV. [illegible]

A. Determine the effect of draft on [illegible] for various [illegible] atmospheric stabilities.

B. Develop a quality control procedure [illegible] the pressure drop of [illegible] with time periods with the [illegible] particle size [illegible].

C. [illegible] the effect of temperature [illegible].

D. [illegible] the principal properties of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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